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## **Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the subject application, and please amend the claims as follows:

1. (Currently amended) An implantable prosthesis having improved mechanical and chemical properties comprising:

a radiation resistant and hydrolytically stable biocompatible fabric having inner and outer surfaces and first and second ends;

said fabric having a textile construction of a plurality of polymeric filaments comprising a <u>at least two</u> naphthalene dicarboxylate derivatives, wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C,

and wherein said plurality of polymeric filaments comprises a combination of undrawn and partially drawn radial filaments.

- 2. (Original) The implantable prosthesis of claim 1 wherein said fabric is polyethylene naphthalate.
- 3. (Original) The implantable prosthesis of claim 1 wherein said fabric is selected from the group consisting of poly(ethylene napthalate), poly(propylene naphthalate), polytrimethylene naphthalate, trimethylenediol naphthalate, poly(iso-propylene naphthalate), poly(n-butylene naphthalate), poly(iso-butylene naphthalate), poly(tert-butylene naphthalate), poly(n-pentylene naphthalate), poly(n-hexylene naphthalate), and combinations and derivatives thereof
- 4. (Original) The implantable prosthesis according to claim 1 wherein said textile construction is selected from the group consisting of weaves, knits, braids, filament windings or spun filament.

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- 5. (Original) The implantable prosthesis according to claim 1 wherein said implantable prosthesis is a vascular graft.
- 6. (Original) The implantable prosthesis according to claim 1 wherein said implantable prosthesis is an endovascular graft.
- 7. (Withdrawn) The implantable prosthesis according to claim 1 wherein said implantable prosthesis is selected from the group consisting of a balloon catheter, filter, mesh, vascular patch, hernia plug and arterial-vascular access graft.
- 8. (Original) The implantable prosthesis according to claim 1 further including a coating.
- 9. (Original) The implantable prosthesis according to claim 1, wherein the polymeric filaments have about 20 to about 100 filaments.
- 10. (Original) The implantable prosthesis according to claim 1, wherein the polymeric filaments have a denier from about 20 to about 1500.
- 11. (Currently amended) An implantable prosthesis having improved mechanical and chemical properties comprising:

a radiation resistant and hydrolytically stable biocompatible tubular fabric of a textile construction,

said fabric having a plurality of yarns selected from the group consisting of comprising polyethylene naphthalate, and polybutylene naphthalate and combinations thereof, wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C,

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and wherein said plurality of polymeric filaments comprises a combination of undrawn and partially drawn radial filaments.

- 12. (Original) The implantable prosthesis according to claim 11 wherein said implantable prosthesis is a intraluminal prosthesis.
- 13. (Original) The implantable prosthesis according to claim 11 wherein said implantable prosthesis is an endovascular graft.
- 14. (Original) The implantable prosthesis according to claim 11 further including a radially deformable support component.
- 15. (Original) The implantable prosthesis according to claim 14 wherein said support component is a radially deformable stent.
  - 16. (Cancelled)
- 17. (Currently amended) Method for making a radiation and thermal resistant and hydrolytically stable, steam sterilizable biocompatible prosthesis comprising:
- a) partially drawing a plurality of polymeric filaments comprising a <u>at least</u> two naphthalene dicarboxylate derivatives;
- b) forming a fabric having an inner and outer surface and first and second ends, said fabric having a plurality of radial polymeric filaments comprising a combination of said partially drawn polymeric filaments and undrawn polymeric filaments, wherein said fabric being stable at a temperature of at least about 120°C; and
  - c) forming said prosthesis from said fabric.
  - 18. (Cancelled)

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19. (Previously presented) The implantable prosthesis according to claim 1, wherein said partially drawn and undrawn polymeric filaments are capable of circumferential expansion.

## 20. (Cancelled)

21. (Previously presented) An implantable prosthesis having improved mechanical and chemical properties comprising:

a radiation resistant and hydrolytically stable biocompatible fabric having inner and outer surfaces and first and second ends;

said fabric having a textile construction of a plurality of polymeric filaments which comprises a combination of undrawn and partially drawn radial filaments comprising a naphthalene dicarboxylate derivative, wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C,

wherein said naphthalene dicarboxylate derivative conforms to the formula:

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wherein R<sub>1</sub> and R<sub>3</sub> are the same or different groups and are independently selected from the group consisting of hydrogen radicals and methyl radicals; R<sub>2</sub> is an alkylene radical having 1 to 6 carbon atoms which may be linear or branched; and n is from about 10 to about 200, and wherein said prosthesis further comprises a series of crimps.

22. (New) An implantable prosthesis having improved mechanical and chemical properties comprising:

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a radiation resistant and hydrolytically stable biocompatible fabric having inner and outer surfaces and first and second ends;

said fabric having a textile construction of a plurality of polymeric filaments comprising at least two naphthalene dicarboxylate derivatives, wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C.

23. (New) An implantable prosthesis having improved mechanical and chemical properties comprising:

a radiation resistant and hydrolytically stable biocompatible tubular fabric of a textile construction,

said fabric having a plurality of yarns comprising polyethylene naphthalate and polybutylene naphthalate wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C.

24. (New) An implantable prosthesis having improved mechanical and chemical properties comprising:

a radiation resistant and hydrolytically stable biocompatible fabric having inner and outer surfaces and first and second ends;

said fabric having a textile construction of a plurality of polymeric filaments comprising a naphthalene dicarboxylate derivative, wherein said radiation resistant and hydrolytically stable biocompatible fabric is stable at a temperature of at least about 120°C,

and wherein said plurality of polymeric filaments comprises a combination of undrawn and partially drawn radial filaments.